



GOLF CART BATTERY

EV Series



EV12-52

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

Performance Characteristics

- **Nominal Voltage** 12V
- **Ampere Hour Capacity**
 - 20 Hours rate (2.75A, 10.8V)..... 55Ah
 - 10 Hours rate (5.2A, 10.8V)..... 52Ah
 - 5 Hours rate (9.6A, 10.5V)..... 48Ah
- **Minutes of Discharge**
 - 25A to 10.2V..... 95
 - 75A to 9.6V 22
 - 100A to 9.6V..... 15
 - 56A to 9.6V 35
 - 85A to 9.6V 19
- **Cranking Amps**
 - 32°F/0°C 375
 - 0°F/-18°C 275
- **Internal Resistance**
 - Fully charged battery (77°F /25°C)..... 6.5mΩ
- **Self-Discharge (68°F /20°C)**
 - Capacity declined per month 3%
- **Opening temperature Range**
 - Discharge..... -20 ~ 60°C
 - Charge..... -10 ~ 50°C
 - Storage..... -20 ~ 60°C
- **Max. discharge current (77°F /25°C)** 550A(5S)
- **Short Circuit Current**..... 1400A
- **Charge Methods: constant voltage charge (77°F /25°C)**
 - Cycle use 14.7 ~14.9V
 - Max. Current 13.8A
 - Standby use 13.6 ~ 13.8V

General Features

- **Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.**
- **Not restricted for air transport-complies with IATA/ICAO Special Provision A67.**
- **A recognized component of CE and UL**
- **Computer designed lead, calcium tin alloy grid for high power density.**
- **Long service life, float or cyclic applications.**
- **Maintenance-free operation.**
- **Low self discharge**
- **Design Life 10 years**

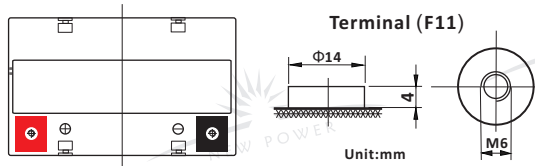
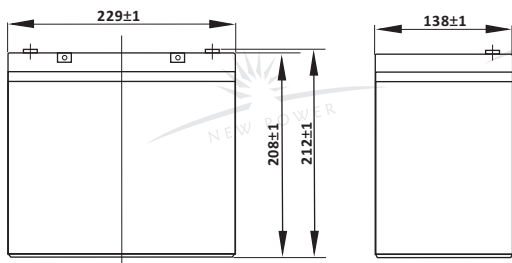
Constant Current Discharge (Amperes at 77°F/25°C)

V/cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60	170	130	100	58.5	43.5	35.0	15.9	10.1	5.60
1.65	161	125	96.5	56.5	42.1	34.0	15.6	9.95	5.53
1.70	150	119	92.5	54.4	40.6	32.9	15.2	9.80	5.45
1.75	138	112	88.0	52.2	39.0	31.8	14.8	9.60	5.35
1.80	124	104	83.0	49.8	37.3	30.6	14.3	9.30	5.20

Constant Power Discharge (Watts at 77°F/25°C)

V/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60	302	235	180	110	82.5	69.2	39.5	28.8	18.7
1.65	287	225	174	107	80.5	67.7	38.7	28.3	18.5
1.70	270	214	167	103	78.0	65.9	37.8	27.7	18.2
1.75	251	202	160	99.0	75.5	64.0	36.9	27.1	17.9
1.80	230	189	152	94.5	72.5	62.0	35.9	26.4	17.5

(Note: The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.)



Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	229mm	138mm	208mm	212mm	17.2Kg
English Units	9.01inch	5.43inch	8.19inch	8.35inch	37.9lbs



